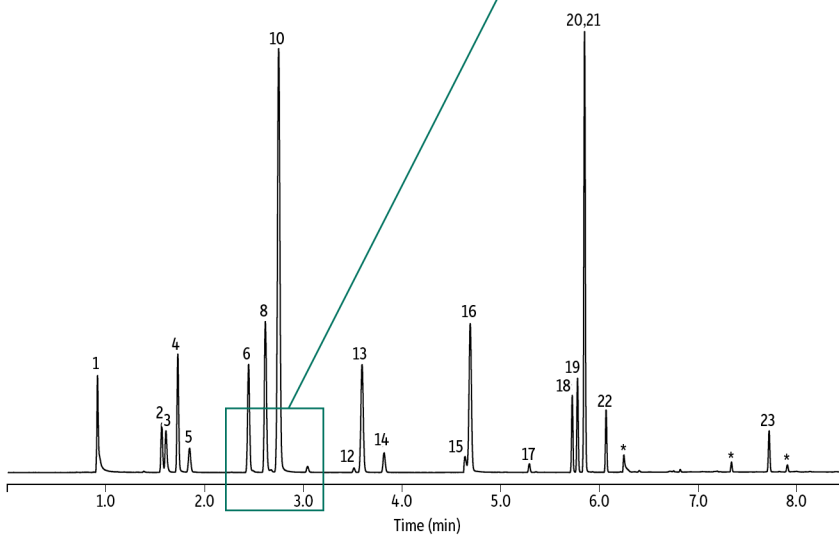
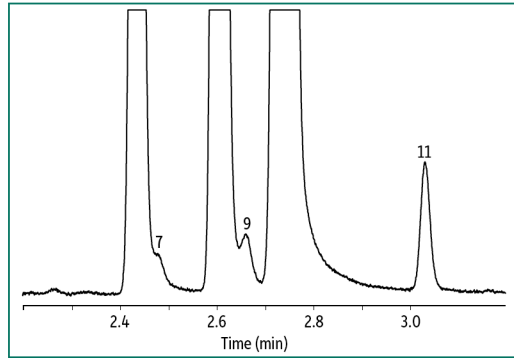
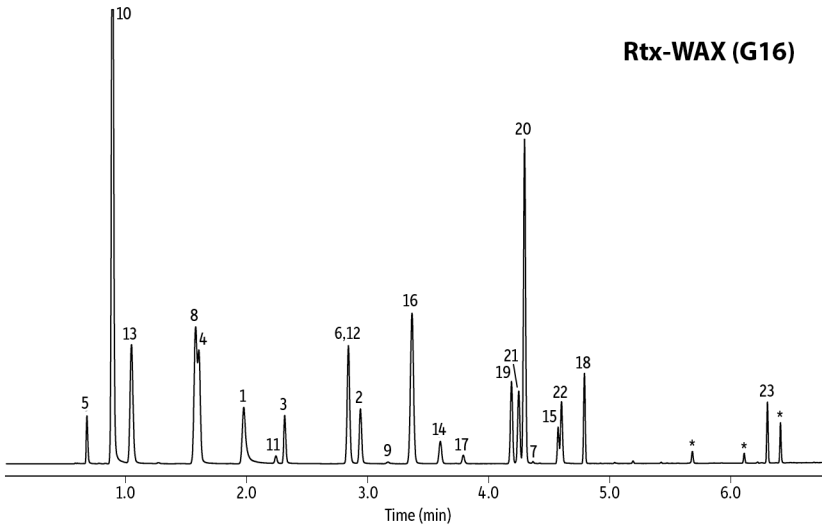


OVI by Dynamic Headspace and Gerstel MACH on Rtx-624 (G43) and Rtx-WAX (G16)

Rtx-624 (G43)



Rtx-WAX (G16)



GC_PH00845

Peaks

1. Methanol
2. Acetonitrile
3. Dichloromethane
4. *trans*-1,2-Dichloroethylene
5. Hexane
6. *cis*-1,2-Dichloroethylene
7. Nitromethane
8. Tetrahydrofuran
9. Chloroform
10. Cyclohexane
11. 1,2-Dimethoxyethane
12. Trichloroethylene

Peaks

13. Methylcyclohexane
14. 1,4-Dioxane
15. Pyridine
16. Toluene
17. 2-Hexanone
18. Chlorobenzene
19. Ethyl benzene
20. *m*-Xylene
21. *p*-Xylene
22. *o*-Xylene
23. Tetralin

* Septum components

Column Rtx-624 20 m, 0.18 mm ID, 1.00 μ m (cat.# 40924) and Rtx-WAX (G16) 20 m, 0.18 mm ID, 0.4 μ m (custom) using IP deactivated guard column 5 m, 0.32 mm ID (cat.# 10044) with Universal "Y" Press-Tight connector (cat.# 20405)

Sample Residual solvents Class 2 - mix A (cat.# 36271)
Residual solvents Class 2 - mix B (cat.# 36272)
Diluent: 0.5 mL DI water/~0.2 g sodium sulfate in 20 mL headspace vial; components at 0.10 - 6.00 μ g headspace-trap split (split ratio 20:1)

Injection
Headspace-Trap
Instrument: Tekmar HT3
Inj. Temp.: 220 °C
Transfer

Line Temp.: 220 °C
Valve Oven Temp.: 220 °C
Standby flow rate: 50 mL/min

Trap
Standby Temp.: 40 °C
Trap Sweep Temp.: 40 °C
Preheat Mixer: On

Preheat
Mixer Time: 2.0 min
Preheat
Mixing Level: 5

Preheat Mixer
Stabilize Time: 0.5 min
Sample Temp.: 80 °C
Sweep Flow Rate: 75 mL/min

Sweep Flow Time: 5.0 min
Dry Purge: 10.0 min, flow 100 mL/min @ 25 °C

Desorb
Preheat Temp.: 245 °C
Desorb: 1.0 min @ 250 °C
Trap Bake Temp.: 260 °C
Trap Bake Time: 6.0 min
Trap Bake Flow: 450 mL/min

Oven
Oven Temp.: 250 °C
Carrier Gas
He
Detector
FID @ 250 °C

Make-up Gas
Flow Rate: 45 mL/min
Instrument
Agilent 6890 with Gerstel Modular Accelerated Column Heater (MACH)
Notes
Sample preheat time: 15.00 min

Flow rate: constant flow; column 1: 0.85 mL/min;
column 2: 0.99 mL/min

Gerstel temps.:

Column 1: 50 °C (2 min) to 80 °C at 20 °C/min (1 min)
to 200 °C at 40 °C/min (2 min)
Column 2: 35 °C (2 min) to 60 °C at 100 °C/min (1 min)
to 200 °C at 40 °C/min (2 min)